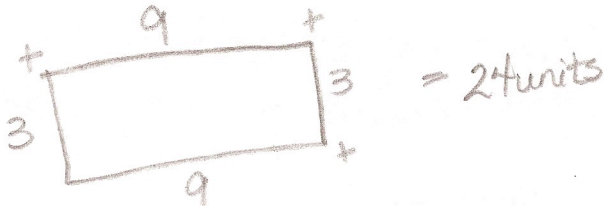


Perimeter

Distance around the outside of a figure.

Add all the sides together.



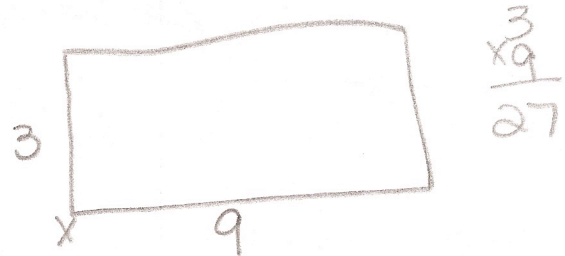
$$P = 24 \text{ units}$$

Area of a Rectangle

- Space covered by a shape

-  $A_{\square} = \text{length} \times \text{width}$

$$A_{\square} = l \cdot w$$



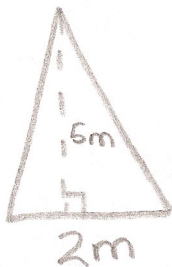
$$A = 27 \text{ units}^2$$

Area is always squared

Area of a Triangle

$$A_{\Delta} = \frac{bh}{2} \text{ or } \frac{1}{2}bh$$

b = base h = height

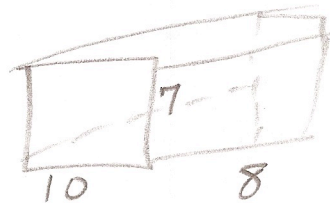


\*height is always at a right angle.

$$A = \frac{2(5)}{2} = \frac{10}{2} = 5 \text{ m}^2$$

Volume of a Rectangular Prism

$$V = l \cdot w \cdot h$$

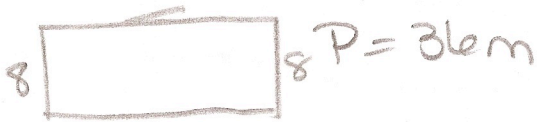


$$V = 8 \cdot 10 \cdot 7$$

$$V = 560 \text{ mm}^3$$

**Finding a missing side when you know the perimeter...**

$$P = S_1 + S_2 + S_2 \text{ etc}$$



$$\begin{array}{r} 36 \\ - 16 \\ \hline 20 \end{array} \div 2 \text{ because there are 2 sides}$$

10m

**Finding a missing side when you know the area...**

$$A = bh \text{ or } A = \frac{bh}{2}$$

Substitute what you know to find the missing side

$$\text{Sin } | A = 20 \text{ in}^2 |$$

$$A = l \cdot w$$

$$\frac{20}{5} = \frac{l \cdot 5}{5}$$

$$4 \text{ in} = l$$

**Find the area of a composite figure....**

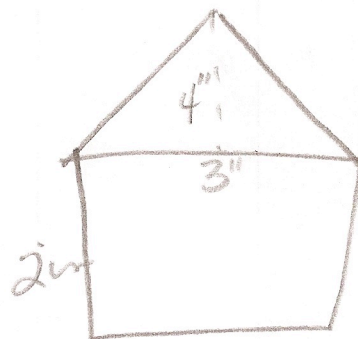
• Break into  $\square$ ,  $\Delta$  or  $\square$

$$A_{\square} = l \cdot w$$

$$A_{\Delta} = \frac{bh}{2}$$

$$A_{\square} = bh$$

$$\begin{aligned} A_{\Delta} &= \frac{bh}{2} \\ &= \frac{4(3)}{2} = \frac{12}{2} = 6 \text{ in}^2 \end{aligned}$$



$$\begin{aligned} A_{\square} &= bh \\ &= 3 \cdot 2 \\ &= 6 \text{ in}^2 \end{aligned}$$

$$6 \text{ in}^2 + 6 \text{ in}^2 = 12 \text{ in}^2$$